

4407

GEOPHYSICAL REPORT

ON

ZEKE 11-30 MINERAL CLAIMS  
WATCHING CREEK AREA  
KAMLOOPS MINING DIVISION, B. C.

Latitude: 50° 54' N.

Longitude: 120° 34' W.

Map Sheet: 92 I/15E

BY

JAMES S. DODGE, P. ENG.

MARCH 25 - APRIL 22, 1973

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4407 MAP



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MAPS

#1 'ZEKE' CLAIM MAP.....	(Pocket)
#2 MAGNETIC INTENSITY MAP.....	(Pocket)

*JSD*

LIST OF CLAIMS

<u>Claim Nos.</u>	<u>Grant Numbers</u>	<u>Mining Division</u>	<u>Date Recorded</u>
ZEKE 11-30	112330 - 112349	Kamloops	April 24, 1973

JSA

INTRODUCTION

During March 25 - April 22, 1973, Spartan Explorations Ltd. conducted a ground magnetometer survey on the ZEKE mineral claims Nos. 11-30 on the Tranquille Plateau between the headwaters of Cannell Creek and Watching Creek. Attention was also given to the possible presence of outcrops of Mesozoic andesites and younger intrusive rocks along the survey lines, as these are hosts for important copper deposits in the Kamloops area to the south.

LOCATION AND ACCESS

The ZEKE 11-30 group of mineral claims is situated at latitude  $50^{\circ} 54'$  N. and longitude  $120^{\circ} 34'$  W. in the Kamloops Mining Division. The on-the-ground location of the ZEKE Group appears to be approximately one mile west-southwest of the position as shown on the enclosed (map pocket) photocopy of the mining recorder's claim map.

Access is by 14 miles of gravel road north from Kamloops on the Pass Lake road to the Forestry Station at the north end of Pass Lake one mile east of Ofax Hill. Unimproved, dry weather forestry roads extend for 6 miles northwest from Pass Lake to the ZEKE claims. A four-wheel drive vehicle is required beyond the Cannell Creek crossing on the Tranquille Lake road, in order to reach the ZEKE Group.

The claim group lies in an area of low rolling hills on the Tranquille Plateau between the headwaters of Watching Creek and Cannell Creek at elevations ranging from 4800' in the south-east corner to 5200' in the northwest corner.

*JSD*

SURVEY TECHNIQUES

A two-man base camp was established on the Cannell Creek road crossing from which ground magnetometer traverses were made of the claim area using a hand-held Scintrex MF-1 fluxgate magnetometer.

The magnetometer survey was conducted in two phases; the first, as a reconnaissance over the ZEKE group along location and side lines of the claims, in a NE-SW pattern of lines 1500 feet apart, with stations occupied at 300-foot intervals on each line; the second, as a detailed survey with supplemental station locations on a 300-foot grid covering all of ZEKE claims Nos. 29 and 30, with the exception of several small bog areas which were temporarily inaccessible owing to spring flooding. The second phase was conducted in order to determine if any magnetic-grain trends were present which did not conform to the broad trend expressed by results in Phase I.

Diurnal magnetic variations, although minimal, were recorded by re-occupying one of the two base stations every two to three hours during the surveys. The total variation in gammas per time unit was proportionately distributed as a real time correction to the readings obtained at successive stations occupied during each check-in time unit. The raw field station data was all similarly treated and the adjusted values used in contouring the magnetometer survey results.

JSD

MAGNETIC SURVEY

Magnetic data along the reconnaissance lines Nos. 1-5 reveal a progressively increasing level of magnetic intensity in an easterly direction with a range of approximately 600 gammas in the 1½-mile distance. Isomagnetic lines plotted on a 100-gamma interval display a rather uniform increasing intensity gradient eastward as shown on Map I in pocket of this report.

No significant isolated anomalous magnetic values were observed over the 300-foot grid survey covering the accessible portions of Claims Nos. 29 and 30. Furthermore, outcrops and sub-crop material along the survey lines were entirely composed of Kamloops Group (Tertiary) unaltered andesitic volcanics and pyroclastics, although some fragmental float of amygdaloidal basalt was noted. However, if basalt comprised large areas of concealed bedrock it is probable that correspondingly higher magnetic anomalies would be exhibited.

It is concluded that further detailed magnetic surveys do not appear warranted, from an interpretation of both these magnetic data and the geologic information.

JSA

APPENDIX ISUMMARY OF COSTS

## Wages &amp; Fees (March 25 - April 22, 1973)

James S. Dodge, P. Eng.

March 25, April 8-12, 21, 22, 1973

7 1/3 days @\$150/day

\$1,100.00

Arnold C. Racicot, Field Assistant-Prospector

March 25 - April 12, 1973

10 days @\$ 60/day

\$ 600.00

## Transportation and Subsistence

Camp Food

16 man-days @\$ 7/man-day

\$ 112.00

4-wheel drive truck

545 miles @18¢ /mile

\$ 98.00

## Equipment Rental

Magnetometer Rental

2 weeks @\$ 70/week

\$ 140.00

GRAND TOTAL -

\$ 2,050.00

JSD

APPENDIX II

DOMINION OF CANADA:  
PROVINCE OF BRITISH COLUMBIA.  
To Wit:

**In the Matter of**

costs incurred in carrying out geophysical surveys on the ZEKE Claims

I, JAMES S. DODGE

of #304, 1035 West Pender Street, Vancouver 1, B.C.

in the Province of British Columbia, do solemnly declare that

to the best of my knowledge and belief the Summary of Costs as presented in Appendix I, Page No. 5 of this report, "Geophysical Report on the ZEKE Mineral Claims", is both true and correct.

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City  
of Vancouver  
Province of British Columbia, this 21  
day of June

, in the } James A. Dodge  
, A.D. }

*Jell Turner*  
-----  
A Commissioner for taking Affidavits for British Columbia or  
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER



APPENDIX III

STATEMENT OF QUALIFICATIONS

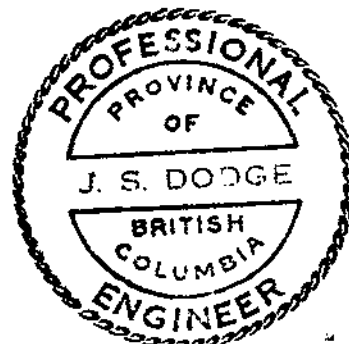
1. I am a minerals exploration consultant residing at 392 Royalmore Avenue, Richmond, British Columbia with offices at 1035 West Pender Street, Vancouver, British Columbia and Red Mountain, Aspen, Colorado, U.S.A.
2. I graduated as a mining engineer from Missouri School of Mines, B.S., 1941; received the degree of Master of Science in economic geology from Stanford University, 1951; and attended Albert-Ludwigs University, Freiburg, Germany during 1952.
3. I am a certified member of the Association of Professional Engineers of British Columbia, and am a registered professional engineer in the State of Colorado. I am a member of the Society of Economic Geologists.
4. I am the author of this entire report.
5. I carried out the geophysical surveys performed on the ZEKE Group 11 - 30 Claims.

June 14, 1973.

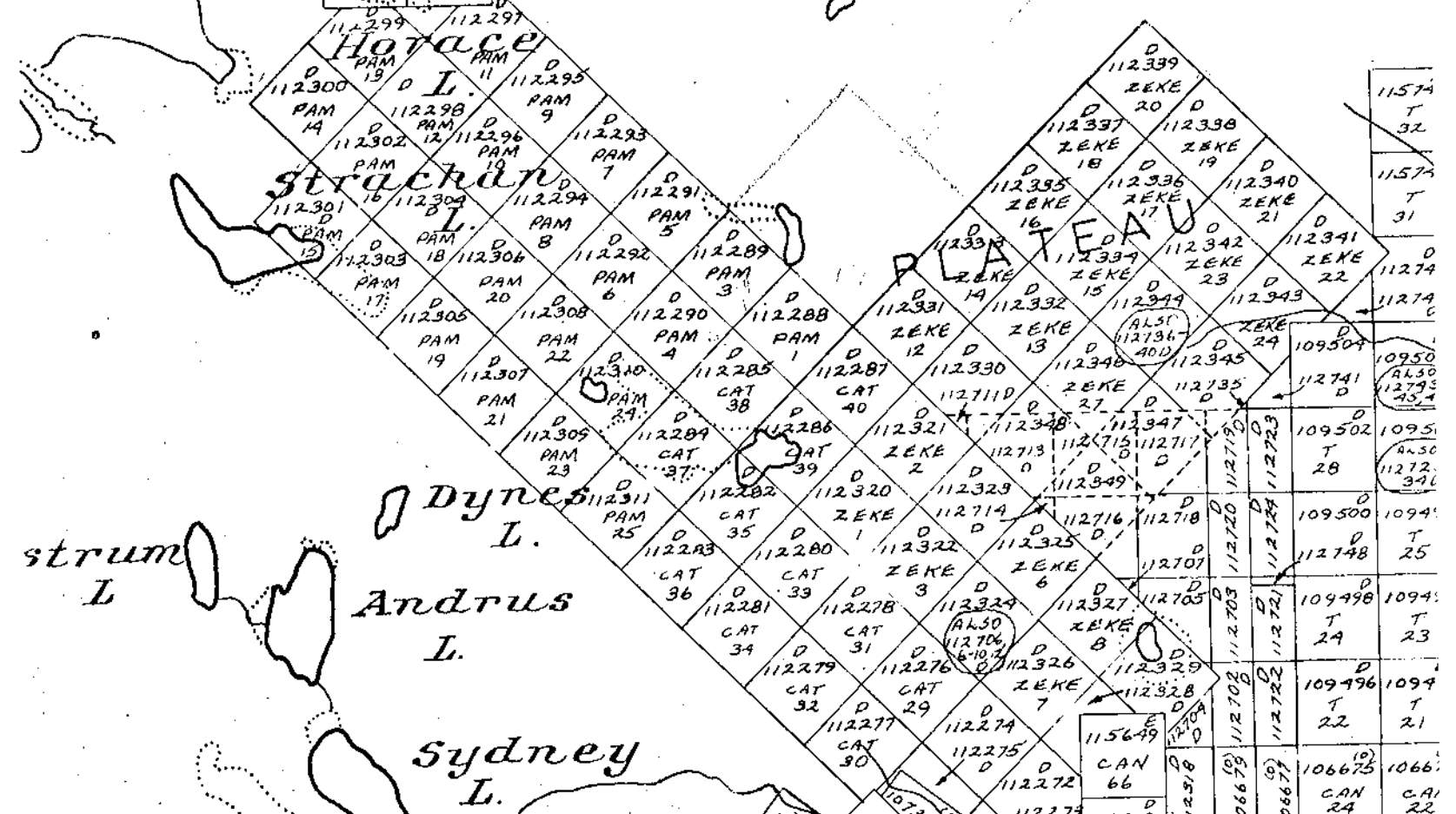
Signed: \_\_\_\_\_

*James S. Dodge*

James S. Dodge



Expiry Date: August 4, 1973



4407M

PROFESSIONAL  
OF  
J. S. DODGE  
BRITISH COLUMBIA  
ENGINEER

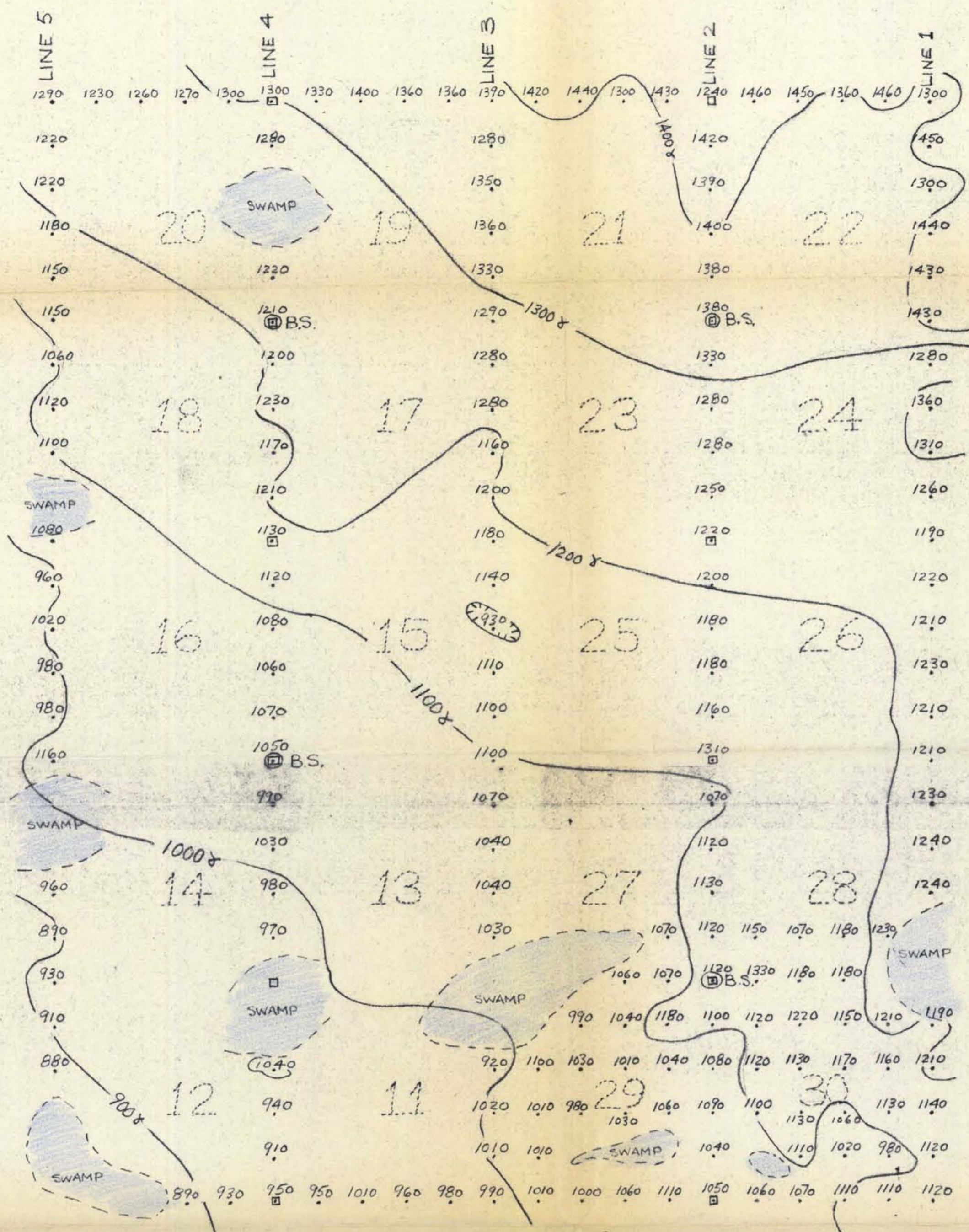
Expiry Date: August 4, 1973

To accompany Geophysical  
Report on ZEKE 11-30  
for Spartan Explorations Ltd  
by James S. Dodge, P. Eng.  
dated: June 14, 1973



M. 730.021

50° 54' N



**LEGEND**

- CLAIM POSTS
- OBS = BASE STATION
- 14 = CLAIM NUMBER
- 1260 = 1200 GAMMAS LOCAL MAGNETIC INTENSITY AT STATION INDICATED

CONTOUR INTERVAL = 100 (GAMMAS)

Department of Mines and Petroleum Resources	SPARTAN EXPLORATIONS LTD
ASSESSMENT REPORT	MAGNETIC SURVEY
NO. 4407	MAP #2
	ZEKE CLAIMS 11-30 WATCHING CREEK AREA KAMLOOPS MINING DIVISION B.C.
SCALE: 1" = 600'	JAMES S DODGE, P.E. JUNE 14, 1973

*James A. Dodge*



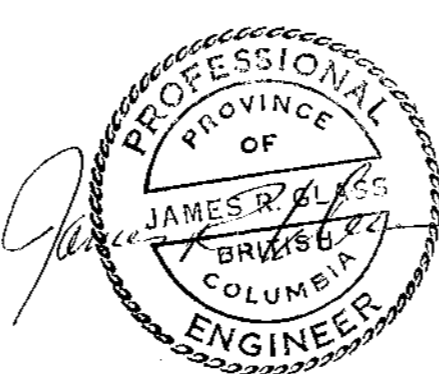


Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4408 MAP #1

MAP SHOWING

MAGNETOMETER SURVEY  
POD GROUP of CLAIMS  
HIGHLAND VALLEY B.C. KAMLOOPS M.D.

for  
DUSTY MAC MINES LTD. (N.P.L.)



Scale 1" = 400'

June 1973

To Accompany report by JAMES R. GLASS P. Eng.